

# THE ONLY BED SHAYES OF AVIERIOA

Hirginia Gech Intellectual Properties, Inc.

PLOCE IS, THERE HAS BEEN PRESENTED TO THE

# Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE SHIT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR RITING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE URPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY OLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEO.)

WHEAT, COMMON

'176'

In Jestimony Thereof, I have hereunto set my hand and caused the seal of the Hant Harrety Frotection Office to be affixed at the City of Washington, D.C. this sixth day of February, in year two thousand and seven.

Au

am Jul Commissioner

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

lture

15. GENUS AND SPECIES NAME OF CROP  16. FAMILY NAME (Botanical)  17. IS THE VARIETY A FIRST GENERATION HYBRID?  18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)  19. DOES THE OWNER SPECIFY THAT SEED OF THAY SAMELY SEED AS A CLASS OF CERTIFIED SEED?  19. DOES THE OWNER SPECIFY THAT SEED OF THAY SAMELY SEED AS A CLASS OF CERTIFIED SEED?  19. DOES THE OWNER SPECIFY THAT SEED OF THAY SAMELY SEED AS A CLASS OF CERTIFIED SEED?  19. DOES THE OWNER SPECIFY THAT SEED OF THAY SAMELY SEED AS A CLASS OF CERTIFIED SEED?  19. DOES THE OWNER SPECIFY THAT SEED OF THAY SAMELY SEED AS A CLASS OF CERTIFIED SEED?  19. DOES THE OWNER SPECIFY THAT SEED OF THAY SAMELY SEED AS A CLASS OF CERTIFIED SEED?  20. DOES THE OWNER SPECIFY THAT SEED OF THIS X VEST OF NO.  21. X Value Statement of the Basic of the Variety Cyptional)  22. Enhibit C. Objective Description of Variety  23. STENDER OWNER SPECIFY THAT SEED OF THIS X VEST ON SAME AS A CLASS OF CERTIFIED SEED?  24. Schibit C. Objective Description of Variety  25. Enhibit C. Objective Description of Variety  26. X Enhibit C. Objective Description of Variety  27. A Schibit C. Objective Description of the Variety Cyptional)  28. X Filling and Examination Fee (\$2,708), made payable to "Treasurer of the United Control of the Variety Cyptional Control of Cyptional	REPRODUCE LOCALLY. Include form number and date on all rep	roductions		Form Approved - OMB No. 0581-0055				
SCIENCE AND TECHNICACH PROTECTION OF PROTECT	U.S. DEPARTMENT OF AGR							
1. NAME OF OWNER  Virginia Tech Intelligence Name (No. C. 0), Educa, will ZIP Code, and Control)  1. ALDORESS (Street and No. C. 0), Educa, will ZIP Code, and Control)  1. ALDORESS (Street and No. C. 0), Educa, will ZIP Code, and Control)  1. ALDORESS (Street and No. C. 0), Educa, will ZIP Code, and Control)  1. ALDORESS (Street and No. C. 0), Educa, will ZIP Code, and Control)  1. ALDORESS (Street and No. C. 0), Educa, will ZIP Code, and Control)  1. ALDORESS (Street and No. C. 0), Educa, will ZIP Code, and Control)  1. ALDORESS (Street and No. C. 0), Educa, will ZIP Code, and Control)  1. ALDORESS (Street and No. C. 0), Education of the Code (C. 0), Educat	SCIENCE AND TECHNOLOGY - PLANT VARI APPLICATION FOR PLANT VARIETY PRO	ETY PROTECTION OFFICE TECTION CERTIFICATE	Application is required in order to deter	rmine if a plant variety protection certificate is to be issued				
VIGINATE CONTINUE (CONTINUE EXECUTION OF PROCESS OF CONTINUE SUPPLIES CONTINUE CONTI		en station of reversey	2. TEMPORARY DESIGNATION OR	3. VARIETY NAME				
Virginia Tuck Seathermal Properties, Jac. 27th Earth Drive, Soils 1998    Commission Drive, Soils 1998   Commission Drive, Soils 1998   Commission Drive, Soils 1998   Composition Drive, Soil Environmental Sciences   Carl A. Griffey   Crop and Soil Environmental Sciences   Crop an	Virginia Tech Intellectual Properties, Inc.			176				
The Control Price Control Pric	4. ADDRESS (Street and No., or R.F.D. No., City, State, and	ZIP Code, and Country)	5. TELEPHONE (include area code)	FOR OFFICIAL USE ONLY				
Black-burg, VA 24009  The Connect Market Service A Present of the Connect Service of the Co	Virginia Tech Intellectual Properties, Inc.		530 051 00T1	# has				
SHORESHIP, A ZAMON  7. FITHER COMMENT NUMBER IN TATA FREEDRIF, CAN'E FORM OF CONTROLLAND BY CONT	2206 Kraft Drive, Suite 1050							
THE PRINCE CONTROL AND STRICES HAVE OF CREATING TO SERVE IN THE APPLICATION (proposed public and second public and secon	Blacksburg, VA 24068							
CORPORATION (Proposition, patriorethip, association, etc.) Wrights  Virginia  Corporation  10. NAME ARE ADDRESS OF CWINER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION, (Pisu) person inted will reported  Carl A. Griffley Crop and Soil Environmental Sciences Virginia Tech Blacksburg, VA 24061-0404  11. TELEPHCHE (Protote area code) FAQ 231-9789  12. FAX (Prolitide area code) FAQ 231-9789  13. EAMAL Confiftey (Common Name) Wheat, Common  Titlicome assistant  Titlicome and benefit person of the Virginia (Protote area code) FAR SCHOOL AND GRECHES NAME OF CROP  Titlicome assistant  Titlicome and benefit person of the Virginia (Protote area code) FAR SCHOOL AND GRECHES NAME OF CROP  Titlicome and benefit person of the Virginia (Protote area code) FAR SCHOOL AND GRECHES NAME OF CROP  Titlicome and benefit person of the Virginia (Protote area code) FAR SCHOOL AND GRECHES NAME OF CROP  Titlicome and benefit person of the Virginia (Protote area code) FAR SCHOOL AND GRECHES NAME OF CROP  Titlicome and benefit person of the Virginia (Protote area code) FAR SCHOOL AND GRECHES NAME OF CROP  Titlicome and benefit person of the Virginia (Protote area code) FAR SCHOOL AND GRECHES NAME OF CROP  Titlicome and benefit person of the Virginia (Protote area code) FAR SCHOOL AND GRECHES NAME OF CROP  Titlicome and benefit person of the Virginia (Protote area code) FAR SCHOOL AND GRECHES OF THAT SEED OF THAT SEED OF THE Virginia (Protote area code) FAR SCHOOL AND GRECHES OF THAT SEED OF THE VIRGINIA (PROTote Area CARSES) FAR SCHOOL AND GRECHES OF THAT SEED OF THE VIRGINIA (PROTote Area CARSES) FAR SCHOOL AND GRECHES OF THAT SEED OF THE VIRGINIA (PROTote Area CARSES) FAR SCHOOL AND GRECHES OF THAT SEED OF THE VIRGINIA (PROTote Area CARSES) FAR SCHOOL AND GRECHES OF THAT SEED OF THE VIRGINIA (PROTote Area CARSES) FAR SCHOOL AND GRECHES OF THAT SEED OF THE VIRGINIA (PROTote Area CARSES) FAR SCHOOL AND GRECHES OF THAT SEED OF THE VIRGINIA (PROTote Area CARSES) FAR SCHOOL AND GRECHES OF THAT SEED OF THE VIRGINIA (PROTote Area CARSES) FAR S				FILING DATE				
Corporation  In NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION, (First powers intend will receive all papers)  Carl A. Griffley Crop and Soil Environmental Sciences Virginia Tech Blacksburg, VA 24061-0404  In The Philip Checked area code) Search Control of Soil Environmental Sciences Virginia Tech Blacksburg, VA 24061-0404  In The Checked area code) Search Control of Soil Environmental Sciences Virginia Tech Blacksburg, VA 24061-0404  In The Checked area code) Search Control of Soil Environmental Sciences Virginia Tech Blacksburg, VA 24061-0404  In The Checked area code) Search Control of Soil Environmental Sciences Search Control of Soil Environmental Sciences Search Control of Soil Environmental Sciences In The Checked Control of Soil Environmental Sciences In The C								
Carl A. Griffey Crop and Soil Environmental Sciences Virginia Tech Blacksburg, VA 24061-0404  11. TELEPHONE (moute eve octe) 540-231-9789  12. FAX (minde are octe) 540-231-9789  13. EMIL Cgriffey@M.edu Wheat, Common Tifficum easilyum Tifficum Tifficum easilyum Tifficum easilyum Tifficum Tifficum easilyum Tifficum Tifficum easilyum Tifficum Tif	Corporation	Virginia	June 20, 1985	September 5,2006				
Carl A. Griffley Crop and Soil Environmental Sciences Virginia Tech Blacksburg, VA 24061-0404    Common famous   Selection   Common famous   Selection   Selection	10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S	S) TO SERVE IN THIS APPLICATION. (Fire	st person listed will receive all papers)	F FILING AND EXAMINATION FEES:				
Carl A. Griffley Crop and Soil Environmental Sciences Virginia Tech Blacksburg, VA 24061-0404  12. FAX (include area code) 540-231-3431  13. EMAIL Cgriffley@xt.edu Wheat, Common Fig. Genus And Septices NAME of CROP Filicum aestivum  14. FAX (include area code) 540-231-3431  15. EMAIL Cgriffley@xt.edu Wheat, Common Filicum aestivum  16. FAMILY NAME (Bodonicae) Triticeae  17. S The WARRETY A FIRST GENERATION FIlicum aestivum  18. Grécix A PPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (relicin minucition on reasons) Filicum aestivum  19. DOES THE COMMER SPECIFY THAT SEED OF THIS WARRETY BES DLD AS A CLASS OF CERTIFIED SEED? See Genetic Nikilo of the Panel training from the Warrety Optional a. X Eshibat. Origin and Bevering History of the Variety  A. X Eshibat. Origin and Bevering History of the Variety  A. X Eshibat. Originate of the Saudo of the Comer's Ownership  a. X Eshibat. Caderab Developing of the Variety  A. X Eshibat. Caderab Developing of the Variety Optional  A. X Eshibat. Caderab Developing of the Variety  A. X Eshibat. Caderab Developing of the Variety Optional  A. X Eshibat. Caderab Developing of the Variety Optional  A. X Eshibat. Caderab Developing of the Variety Optional  A. X Eshibat. Caderab Developing of the Variety Optional  A. X Eshibat. Caderab Developing of the Variety Optional  A. X Eshibat. Caderab Developing of the Variety Optional  A. X Eshibat. Caderab Developin				<b>ૄ • 438</b> ⋜.≌				
Virginia Tech Blacksburg, VA 24061-0404  11. TELEPHONE (include area code) 540-231-9789  12. FAX (include area code) 540-231-9789  13. EMAIL Cgriffey@vt.edu Wheat, Common FREGOR TRibourn aesSivum  16. GENIA AND GFTEOES NAME OF CROP TRibourn aesSivum  17. IS THE VAREETY A FIRST GENERATION HORROO TRIBourn aesSivum  18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow industrious on revenue) 18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow industrious on revenue) 18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow industrious on revenue) 18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow industrious on revenue) 18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow industrious on revenue) 18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow industrious on revenue) 18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow industrious on revenue) 18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow industrious on revenue) 18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow industrious on revenue) 18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow industrious on revenue) 18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow industrious on revenue) 18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (FOR EACH ATTACHMENT SUBMITTED) (Follow industrious on revenue) 18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (FOR EACH ATTACHMENT SUBMITTED) (Follow industrious on revenue) 20. DOES THE COWNERS SPECIFY THAT SEED OF THIS Use REPORT THAT SEED OF THIS Use REPORT THAT SEED OF THIS Use REPORT THAT SEED OF THIS Use X NO VARIETY SEED AND AND AND AND AND AND AND AND AND AN	Carl A. Griffey_			# 1				
SERVING FOR CONTROL OF THE WARRETY GENERATION FOR EACH ATTACHMENT SUBMITTED  15. CENUS AND SPECIES NAME OF CROP  TRibicum aessivum  16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED  17. ET HE WARRETY GENERATION  TRibicum aessivum  17. ET HE WARRETY GENERATION  TRibicum aessivum  18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED  18. DOES THE OWNER SINCEPY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CONTROL OF THE WARRETY OF THE WARRETY FOR EACH ASSESS OF CONTROL OF THE WARRETY FOR EACH ASSESS OF CONTROL OF THE WARRETY GENERATION AND SPECIES OF THE WARRETY GENERATION  18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED  18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED  18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED  29. X Exhibit C. Objective Description of the Variety  A X HEB (**) Yes, switch CLASSESS OF CONTROL OF THE WARRETY FOR EACH ASSESS OF CONTROL OF THE WARRETY FOR EACH ASSESS OF CONTROL OF THE WARRETY GENERATION AND ASSESS OF TRANSFERRED OR ON USES IN THE U.S. OR OTHER CONTROL OF THE WARRETY GENERATION AND ASSESS OF TRANSFERRED OR ON USES IN THE U.S. OR OTHER CONTROL OF THE WARRETY GENERATION AND ASSESS	Crop and Soil Environme	ental Sciences		E CERTIFICATION FEE-				
Service of the Common Number   12, FAX (include error code)   13, EAML   14, CROP IND (Common Number   14, CROP IND (Common				C				
11. TELEPHONE (Include area code) 540-231-3789 12. FAX (Include area code) 540-231-3789 13. E-MAIL Cyffrie@V.ecku Wheat, Common 14. FAMELY NAME (Botanical) Triffician aesilvum Triffician	Blacksburg, VA 24061-0	404		111				
12. FAX (Include errae code) 540-231-3431  13. E-MAIL Cgriffey@xt.edu  Wheat, Common  14. CROP KND (Comman Name) Wheat, Common  15. GENUS AND SPECIES NAME OF CROP  16. GENUS AND SPECIES NAME OF CROP  Trifficum aestivum  17. If S THE VARIETY FIRST GENERATION HYBRID Trifficace  18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)  18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)  19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED. See Section 8(8) of the Plant Variety Production And Or No. (17): go to learn 22)  20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED. See Section 8(8) of the Plant Variety Production And Or No. (17): go to learn 22)  20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED. See Section 8(8) of the Plant Variety Production And Or No. (17): go to learn 22)  20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED. See Section 8(8) of the Plant Variety Production And Or No. (17): go to learn 22)  20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED. See Section 8(8) of the Plant Variety Production Office.  21. VARIETY BE LIMITED AS TO NUMBER OF CLASSES? VERY SOUNDATION X REGISTERED X CERTIFIED  22. LOSES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE CHARGETY								
19. GENIUS AND SPECIES NAME OF CROP  16. FAMILY NAME (Botanical)  17. IS THE VARIETY A FIRST GENERATION HYBROY Triticage  18. CALECK APPROPRIATE BOX FOR RACH ATTACHMENT SUBMITTED (Critical instructions on reverse)  18. CALECK APPROPRIATE BOX FOR RACH ATTACHMENT SUBMITTED (Critical instructions on reverse)  19. DOES THE OWNER SPECIEY THAT SEED OF THIS VARIETY DE SOLD AS A CLASS OF CERTIFIED SEED? See Section 53(y) of the Plant Variety Protection Act)  20. X. Exhibit C. Objective Description of Variety  21. Schibit C. Objective Description of Variety  22. DOES THE OWNER SPECIEY THAT SEED OF THIS VARIETY DESCRIPTION  23. X. Exhibit C. Objective Description of Variety  24. X. Exhibit D. Additional Description of Variety  25. Exhibit D. Additional Description of Variety  26. X. Exhibit C. Objective Description of Variety  27. Value Sample (7,500 viable uninvented and conf. or, for tuber propagated varieties, reportably)  28. X. Exhibit C. Statement of the Basis of the Owner's Ownership  29. X. Filling and Examination Fee (23,700), made payable to "Treasurer of the United (Facility of Variety Protection Office)  29. X. Filling and Examination Fee (23,700), made payable to "Treasurer of the United (Facility Office) on the Part Variety Protection Office)  29. X. Filling and Examination Fee (23,700), made payable to "Treasurer of the United (Facility Office) on the Part Variety Protection Office)  20. DOES THE OWNER SPECIEY THAT SEED OF THIS X. YES NO VARIETY REPORT OF THIS X. YES, SPECIEY THAT SEED OF THIS X. YES X. NO VARIETY PROTECTED DEVINE SEED OF THIS X. YES, SPECIEY THAT SEED OF THIS X. YES, SPECIEY THE NUMBER 1,23, etc. FOR EACH CLASS.  21. THE VARIETY OF THE VARIETY PROTECTED BY NIFELECTUAL PROTECTED BY SEED OF THIS X. YES, SPECIEY THE NUMBER 1			*	1 12 - 18 - 7 00 6				
16. GENUS AND SPECIES NAME OF CROP  16. FAMILY NAME (Botanicas)  17. ITHE VARIETY A FIRST GENERATION HYBROT THIS CASE OF THE VARIETY A FIRST GENERATION HYBROT THIS CASE OF THE CONNER SPECIES THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(9) of the Plant Variety Production Act Of CERTIFIED SEED? See Section 83(9) of the Plant Variety Production Act Of CERTIFIED SEED? See Section 83(9) of the Plant Variety Production Act Of CERTIFIED SEED? See Section 83(9) of the Plant Variety Production Act Of CERTIFIED SEED? See Section 83(9) of the Plant Variety Production Act Of CERTIFIED SEED? See Section 83(9) of the Plant Variety Production Act Of CERTIFIED SEED? See Section 83(9) of the Plant Variety Production Act Of CERTIFIED SEED? See Section 83(9) of the Plant Variety Production Act Of CERTIFIED SEED? See Section 83(9) of the Plant Variety Production Act Of CERTIFIED SEED? See Section 83(9) of the Plant Variety Production Act Of CERTIFIED SEED? See Section 83(9) of the Plant Variety Production Act Of CERTIFIED SEED? See Section 83(9) of the Plant Variety Production Act Of CERTIFIED SEED? See Section 83(9) of the Plant Variety Production Act Of CERTIFIED SEED? See Section 83(9) of the Plant Variety Production Act Of CERTIFIED SEED? See Section 83(9) of the Plant Variety Production Act Of CERTIFIED SEED? See Section 83(9) of the Plant Variety Production Act Of CERTIFIED SEED? See See Section 83(9) of the Plant Variety Production Act Of CERTIFIED SEED? See See Section 83(9) of the Plant Variety Production Act Of CERTIFIED SEED SEED. See See Section 83(9) of the Plant Variety Production Act OF THIS SEED SEED SEED SEED SEED SEED SEED SE	11. TELEPHONE (Include area code)	12. FAX (Include erea code)	13. E-MAIL	14. CROP KIND (Common Name)				
Triflocam aestivuim  Triflocam  T	540-231-9789	540-231-3431	Cgriffey@vt.edu	Wheat, Common				
Triflecam asstivutm  Triflecam asstructments  Triflecam as	15. GENUS AND SPECIES NAME OF CROP		16. FAMILY NAME (Botanical)	17. IS THE VARIETY A FIRST GENERATION				
SCHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED				HYBRID?				
(Foliow Instructions on reverse)  a. X Exhibit A. Origin and Breeding History of the Variety  b. X Exhibit A. Origin and Breeding History of the Variety  b. X Exhibit C. Objective Description of Variety  d. X Exhibit C. Objective Description of Variety  d. X Exhibit D. Additional Description of the Variety (Optional)  e. X Exhibit E. Statement of the Basis of the Owner's Ownership  f. X Youcher Sample C, 500 viable unbested seeds or, for tuber propagated varieties, verification that fissure culture will be deposited and maintained in an approved public repository)  g. X Filing and Examination Fee (\$2,705), made payable to "Treasurer of the United States" (Mail to the Plant Variety) Protection Office)  22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED RECHIFICATION THAN SHARE (Plant Share Country), ADDITION THAN SHARE (Plant Share Country), ADDITIO	Triticum aestivum		Triticeae	☐ YES X NO				
b. X Exhibit B. Statement of Distinctness c. X Exhibit C. Objective Description of Variety d. X Exhibit C. Objective Description of Variety d. X Exhibit C. Objective Description of the Variety (Optional) e. X Exhibit C. Additional Description of the Variety (Optional) e. X Exhibit E. Statement of the Basis of the Owner's Ownership f. X Voucher Sample (2,500 visible untreated seeds or, for tuber propagated varieties, verification that itsus eculture will be deposited and maintained in an approved public repository) g. X Filing and Examination Fee (\$2,705), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)  22. HAS THE VARIETY OFFINATION ANY HARVESTED MATERIAL) OR A HYPRIO PRODUCED FROM THIS VARIETY SEED SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES?  X YES OCTOBET SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES?  X YES OCTOBET SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES?  X YES OCTOBET SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES?  X YES OCTOBET SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES?  X YES OCTOBET SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES?  X YES OCTOBET SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES?  X YES OCTOBET SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES?  X YES OCTOBET SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES?  X YES OCTOBET SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER SOLD SOLD SOLD SOLD SOLD SOLD SOLD SOLD	(Follow instructions on reverse)							
C. X Exhibit C. Objective Description of Variety  d. X Exhibit D. Additional Description of the Variety (Optional)  e. X Exhibit E. Statement of the Basis of the Owner's Ownership  f. X Voucher Sample (2,500 viable unfreeled seeds or, for future propagated varieties, varification that fissue culture will be deposited and maintained in an approved public repository)  g. X Filing and Examination Fee (52,705), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)  22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY generated by the propagated of the Variety Protection office)  23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDERS RIGHT OR PATENTY)  24. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be represented variety at Session under the provisions of Section 42 of the Pinnt Variety Protection of the certificate.  25. CABACHY OR TITLE  ARACITY OR TITLE  ARACITY OR TITLE  VARIETY BE LIMITED AS TO NUMBER OF CASSES?  X FOUNDATION	a. X Exhibit A. Origin and Breeding History of the Variet	у	X YES (If "yes", answer items 2	0 and 21 below) 🔲 NO (If "no", go to item 22)				
d. X Enhibit E. Objective pescription of variety  e. X Eshibit E. Statement of the Basis of the Owner's Ownership  e. X Eshibit E. Statement of the Basis of the Owner's Ownership  f. X Voucher Sample (2,500 viable untreated seeds or, for future propagated verieties, varification that tissue culture will be deposited and maintained in an approved public repository)  g. X Filing and Examination Fee (\$2,705), made payable to "Treasurer of the United States" (filed to the Plant Variety Protection Office)  g. X Filing and Examination Fee (\$2,705), made payable to "Treasurer of the United States" (filed to the Plant Variety Protection Office)  g. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THE COUNTRY ANY THE CIRCUMSTANCE. (Please see pages indicated on reverse.)  A The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.  The undersigned owner(s) is(are) the owner of this seasually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.  Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.  IGNATURE OF OWNER  APACITY OR TITLE  DATE  APACITY OR TITLE  DATE  CAPACITY OR TITLE  DATE  A. CAPACITY OR TITLE  DATE  CAPACITY OR TITLE  DATE	b. X Exhibit B. Statement of Distinctness							
e. X Exhibit E. Statement of the Basis of the Owner's Ownership  i. X Voucher Sample (2,500 viable untreated seeds or, for fuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository)  g. X Filing and Examination Fee (32,705), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)  12. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY GER SULD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES?  22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY GER ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENTY)?  23. STHE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENTY)?  24. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety at issue culture will be deposited in a public repository and maintained for the duration of the certificate.  25. COBURN  26. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety at issue culture will be deposited in a public repository and maintained for the duration of the certificate.  26. Owner(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.  27. SIGNATURE OF OWNER  28. SIGNATURE OF OWNER  29. CAPACITY OR TITLE  29	c. X Exhibit C. Objective Description of Variety		VARIETY BE LIMITED AS TO NUMBER OF CLASSES?					
VARIETY SE LIMITED AS TO NUMBER OF GENERATIONS?  VARIETY SE LIMITED AS TO NUMBER OF GENERATIONS?  VARIETY SE LIMITED AS TO NUMBER OF GENERATIONS?  IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.    FYES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.   FOUNDATION   REGISTERED   CERTIFIED	d. X Exhibit D. Additional Description of the Variety (Op.	tional)	IF YES, WHICH CLASSES? X FOUNDATION X REGISTERED X CERTIFIED					
APACITY OR TITLE  VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?  VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?  If YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.  If YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.  If YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.  If YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.  If YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.  If YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.  If YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.  If YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.  If YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.  If YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.  If YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.  If POUNDATION If REGISTERED If CERTIFIED (if additional explanation is necessary, please use the space indicated on the reverse.)  22. HAS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENTY)  X YES OCTOBER 7, PLANT BREEDER'S RIGHT OR PATENTY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENTY)  If YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)  24. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a fissue culture will be deposited in a public repository and mentioned for the duration of the certificate.  The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.  Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.  S	e. X Exhibit E. Statement of the Basis of the Owner's O	wnership						
g. X Filing and Examination Fee (\$2,705), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)  12. HAS THE VARIETY (NCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES?  X YES October 2005  IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTRANCES. (Please use space indicated on reverse.)  24. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replicished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.  The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.  Cowner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.  SIGNATURE OF OWNER  SIGNATURE OF OWNER  APACITY OR TITLE  DATE  DATE  CAPACITY OR TITLE  DATE  DATE			VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?					
States" (Meli to the Plant Variety Protection Office)  (If additional explanation is necessary, please use the space indicated on the reverse.)  (If additional explanation is necessary, please use the space indicated on the reverse.)  (If additional explanation is necessary, please use the space indicated on the reverse.)  (If additional explanation is necessary, please use the space indicated on the reverse.)  (If additional explanation is necessary, please use the space indicated on the reverse.)  (If additional explanation is necessary, please use the space indicated on the reverse.)  (If additional explanation is necessary, please use the space indicated on the reverse.)  (If additional explanation is necessary, please use the space indicated on the reverse.)  (If additional explanation is necessary, please use the space indicated on the reverse.)  (If additional explanation is necessary, please use the space indicated on the reverse.)  (If additional explanation is necessary, please use the space indicated on the reverse.)  (If additional explanation is necessary, please use the space indicated on the reverse.)  (If additional explanation is necessary, please use the space indicated on the reverse.)  (If additional explanation is necessary, please use the space indicated on the reverse.)  (If additional explanation is necessary, please use the space indicated on the reverse.)  (If additional explanation is necessary, please use the space indicated on the reverse.)  (If additional explanation is necessary, please use the space indicated on the reverse.)  (If additional explanation is necessary, please use the space indicated on the reverse.)  (If additional explanation is necessary, please use the space indicated on the reverse.)  (If additional explanation is necessary, please use the space indicated on the reverse.)  (If additional explanation is necessary, please use the space indicated on the reverse.)  (If additional explanation is necessary, please use the space indicated on the reverse is necessary.)		naintainea in an approved public	IF YES, SPECIFY THE NUMBER 1,2,3	B, etc. FOR EACH CLASS.				
FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES?  X YES October 2005  NO  IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)  24. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety at issue culture will be deposited in a public repository and maintained for the duration of the certificate.  The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.  Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.  SIGNATURE OF OWNER  SIGNATURE OF OWNER  WHARK S. COBURN  APACITY OR TITLE  DATE  CAPACITY OR TITLE  DATE  DATE  CAPACITY OR TITLE  DATE		to "Treasurer of the United						
IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)  14. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.  The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.  Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.  IGNATURE OF OWNER  SIGNATURE OF OWNER  WHE (Please print or type)  NAME (Please print or type)  NAME (Please print or type)  DATE  CAPACITY OR TITLE  DATE  DATE  CAPACITY OR TITLE  DATE	FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANS							
IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)  14. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.  The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.  Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.  SIGNATURE OF OWNER  WHAT S. COBURN  NAME (Please print or type)  NAME (Please print or type)  NAME (Please print or type)  DATE  CAPACITY OR TITLE  DATE  CAPACITY OR TITLE  DATE			☐ YES	X NO				
for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.  The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.  Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.  SIGNATURE OF OWNER  SIGNATURE OF OWNER  MARK S. COBURN  NAME (Please print or type)  MARK S. COBURN  DATE  CAPACITY OR TITLE  DATE  DATE  DATE  DATE	IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (PIE	, DISPOSITION, TRANSFER, OR USE ase use space indicated on reverse.)	IF YES, PLEASE GIVE COUNTRY, DA' REFERENCE NUMBER. (Please use a	TE OF FILING OR ISSUANCE AND ASSIGNED spece indicated on reverse.)				
and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.  Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.  SIGNATURE OF OWNER  SIGNATURE OF OWNER  NAME (Please print or type)  NAME (Please print or type)  APACITY OR TITLE  DATE  CAPACITY OR TITLE  DATE				accordance with such regulations as may be applicable, or				
SIGNATURE OF OWNER  MML S. COULL  NAME (Please print or type)  NAME (Please print or type)  NAME (Please print or type)  APACITY OR TITLE  EXECUTIVE VICE  SIGNATURE OF OWNER  SIGNATURE OF OWNER  DATE  CAPACITY OR TITLE  DATE			ariety, and believe(s) that the variety is new, d	listinct, uniform, and stable as required in Section 42,				
MMUS. COUMA  NAME (Please print or type)	Owner(s) is(are) informed that false representation herein	can jeopardize protection and result in pe	enalties.					
MMUS. COUMA  NAME (Please print or type)	SECONATE DE CARACO	<b>1 1</b>	CONTROL OF CAMEED					
MARK S. COBURN  APACITY OR TITLE  CAPACITY OR TITLE  DATE  DATE  DATE	malls.	Colrun	SIGNATURE OF OWNER					
MARK S. COBURN  APACITY OR TITLE  CAPACITY OR TITLE  DATE  DATE  DATE	NAME (Please print or type)		NAME (Please print or type)	·				
EXECUTIVE VICE 5/1/16	MARK S. COBURN	/	· · · · · · · · · · · · · · · · · · ·					
EXECUTIVE VICE 5/5/06	CAPACITY OR TITLE	DATE ,	CAPACITY OR TITLE	DATE				
	EXECUTIVE VICE PRESIDENT	5/5/06		N				

200600283

GENERAL: To be diffectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filing fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

#### ITEM

- 18a. Give:
- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties;
  - (1) identify these varieties and state all differences objectively;
  - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
  - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

A limited amount of Certified Seed of wheat variety '176' was sold to producers in October 2005 in the U.S.A.

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center—East, Beltsville, MD 20706. Telephone: (301) 504-8089. http://www.ams.usda.gov/isg/seed.htm

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 3.0 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and ectivities on the basis of race, color, national crigin, gender, religion, age, disability, sexual crientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5984 (voice and

# 18A. Exhibit A: Origin and Breeding History

Genealogy and Breeding Method. Wheat variety 176, formerly tested and designated VA99W-176, was derived from the cross VA91-54-343/VA92-52-52. The parentage of VA91-54-343 is IN71761A4-31-5-48 // VA71-54-147 (CItr 17449) / 'McNair 1813'. Wheat line IN71761A4-31-5-48 was developed by Purdue University and has the pedigree 'Benhur'/3/'Arthur'/'Knox' type line with gene H5 for Hessian fly resistance/4/'Beau'\*2/3/Arthur\*2//'Riley'/ 'Bulgaria 88'. Parentage of VA92-52-52 is 'Adria' / 2\*'Saluda'. The cross was made in spring 1992, and the F<sub>1</sub> generation was grown in the field as a single 4ft headrow in 1993 to produce F<sub>2</sub> seed. The population was advanced from the F<sub>2</sub> to F<sub>5</sub> generation using a modified bulk breeding method.

Population Advancement and Selection of the Variety. Wheat spikes were selected from the population in each segregating generation (F<sub>2</sub>-F<sub>4</sub>) on the basis of absence of obvious disease, early maturity, short straw and desirable head shape and size. Selected spikes were threshed in bulk, and the seed was planted in 225ft² blocks in the fall of each year. Spikes selected from the F<sub>5</sub> bulk where threshed individually and planted in separate 4ft headrows. Wheat variety 176 was derived as a bulk of one of these F<sub>6</sub> headrows selected in 1998. The variety was tested as entry 176 in non-replicated observation yield tests in 1999 and was formerly designated VA99W-176. This line was evaluated in replicated preliminary yield tests conducted in VA and NC in 2000 (Table 1). Performance of variety 176 (listed as VA99W-176 in tables) was evaluated for three years (2001-2003) under conventional (Tables 2-6) and no-till (Tables 7-11) management systems in Virginia's Official Variety Trial.

Multiplication and Purification. During the 2002-2003 growing season, 354 headrows of wheat variety 176 were planted and evaluated for homogeneity and trueness of type. Sixty-three variant rows, comprised of plant types that were taller (8%), shorter (3%), heterogeneous for plant height (4.5%), taller and later heading (0.3%) and plant types with yellow green plant color (0.6%), compact heads (0.6%), long awns (0.6%), and blue head color (0.3%), were removed prior to harvest. The remaining 291 rows were harvested in bulk to comprise the Breeder seed of variety 176. During fall 2003, approximately 2 bu of Breeder seed were planted on one acre at the VCIA Foundation Seed Farm from which approximately 60 bu of Foundation seed were produced. While variety 176 has remained stable and uniform in composition through the last two generations of multiplication, variants noted during the production of Foundation seed included up to 1% taller plants and 0.5% plants having spikes with long awns. The Foundation seed was sown over a larger area in fall 2004 for further multiplication and subsequently made available to seedsmen in fall 2005.

# 18B. Exhibit B: Novelty Statement

Wheat variety 176 is uniquely different from all known cultivars which it has been tested among, but is most similar to 'USG 3209' whose parentage also is comprised of 'Saluda'. In contrast to their common ancestor Saluda which is susceptible to powdery mildew (Blumeria graminis) isolates having virulence for resistance gene Pm3a, both variety 176 and USG 3209 are resistant to powdery mildew. USG 3209 possesses the 1BL.1RS wheat/rye translocation and the gene Lr26 governing resistance to leaf rust (Puccinia triticina), while variety 176 possesses neither. Seedlings of USG3209 are resistant to leaf rust race TNRJ. which lacks virulence for Lr26, while those of variety 176 are susceptible. Seedlings of USG3209 are resistant to Hessian fly [Mayetiola destructor (Say)] biotypes B and E, while those of variety 176 are resistant to biotype E and susceptible to biotype B. Seedlings of variety 176 are susceptible to race TTTT of stem rust (Puccinia graminis), while those of USG3209 are resistant. Plant height of variety 176 is consistently taller (2-4 inches) than that of USG 3209 (Tables 1-11). Coleoptiles of variety 176 lack anthocyanin and are clear in color, while those of USG 3209 are light red in color.

REPRODUCE LOCALLY. Include form number and date on all reproductions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0555. The time required to complete this information collection is estimated to average 2.5 hours per response, including the time for reviewing instructions, searching existing date sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, perential status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 328-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or cell 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE **BELTSVILLE, MD 20705** 

### **OBJECTIVE DESCRIPTION OF VARIETY** WHEAT (Triticum spp.)

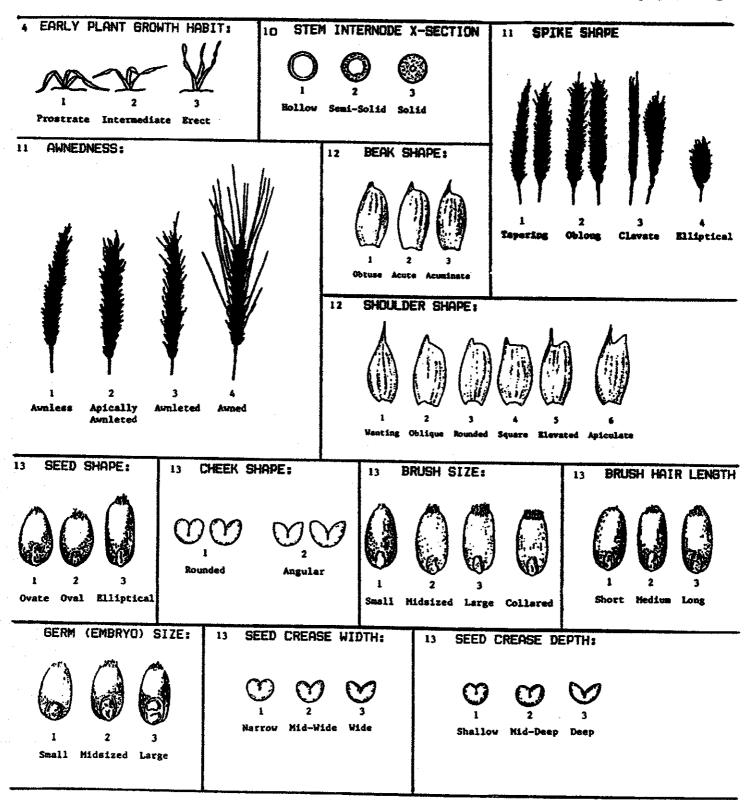
NAME OF APPLICANT(S)	FOR OFFICIAL USE ONLY
Virginia Tech Intellectual Properties, Inc.	PVPO NTIMBEDIS & & C
ADDRESS (Street and No. or RD No., City, State, and Zip Code)	Pronumer200600283
2200 Kraft Drive, Suite 1050 Blacksburg, VA 24060	VARIETY NAME 176
	TEMPORARY OR EXPERIMENTAL DESIGNATION VA99W-176
minimum of 100 plants. Comparative data should be determined from vaused to determine plant colors; designate system used:	ropriate number that describes the varietal character of this variety in the boxes below. either 99 or less or 9 or less respectively. Data for quantitative plant characters should be based on a rieties entered in the same trial. Royal Horticultural Society or any recognized color standard may be ease answer all questions for your variety; lack of response may delay progress of your application.
1. KIND:	2. VERNALIZATION:
1=Common 2=Durum 3=Club 4=Other (SPECIFY):	2 1=Spring 2=Winter 3=Other (SPECIFY):
3. COLEOPTILE ANTHOCYANIN:	4. JUVENILE PLANT GROWTH:
1 = Absent 2 = Present	1 = Prostrate 2 = Semi-erect 3 = Erect
5. PLANT COLOR (boot stage):	6. FLAG LEAF (boot stage):
1 = Yellow-Green 2 = Green 3 = Blue-Green	1 = Erect 2 = Recurved
	2 1 = Not Twisted 2 = Twisted
	1 = Wax Absent 2 = Wax Present
7. EAR EMERGENCE:	
1 2 0 Number of Days (Average)	
0 0 Number of Days Earlier Than	*
Same as	Sisson *
	ater than any cultivar evaluated with
	* Relative to a PVPO-Approved Commercial Variety Grown in the Same Tr

12. G	LUMES (at Maturity):	
A. C	OLOR	e. beak width 200600283
2	1 = White 2 = Tan 3 = Other (SPECIFY):	1 = Narrow 2 = Medium 3 = Wide
B. SE	IOULDER	F. GLUME LENGTH
4	1 = Wanting 2 = Oblique 3 = Rounded 4 = Square 5 = Elevated 6 = Apiculate 7 = Other (SPECIFY):	1 = Short (ca. 7mm) 2 = Medium (ca. 8mm) 3 = Long (ca. 9mm)
C. SE	IOULDER WIDTH	G. WIDTH
2	1 = Narrow 2 = Medium 3 = Wide	1 = Narrow (ca. 3mm) 2 = Medium (ca. 3.5mm) 3 = Wide (ca. 4mm)
D. BE	CAK	
2	1 = Obtuse 2 = Acute 3 = Acuminate	
13. SI	GED .	
A. SH	APE	E. COLOR
1	1 = Ovate 2 = Oval 3 = Elliptical	1 = White 2 = Amber 3 = Red 4 = Other (SPECIFY):
в. сн	EEK	F. TEXTURE
1	1 = Rounded 2 = Angular	2
C. BR	USH	G. PHENOL REACTION (see instructions):
2	1 = Short 2 = Medium 3 = Long 1 = Not Collared 2 = Collared	1 = Ivory 4 = Dark Brown 2 = Fawn 5 = Black 3 = Light Brown
D. CR	EASE	H. SEED WEIGHT
	1 = Width 60% or less of Kernel 2 = Width 80% or less of Kernel 3 = Width Nearly as Wide as Kernel	4 1 g/1000 seed (Whole number only)
2	1 = Depth 20% or less of Kernel 2 = Depth 35% or less of Kernel 3 = Depth 50% or less of Kernel	I. GERM SIZE  1 = Small 2 = Midsize 3 = Large

200600283 Exhibit C (Wheat)

14.	Disease: (0=Not Tested; 1=	-Susceptible;	2=Resistant;	3=Intermediate; 4=Tolerant)
	PLEASE	INDICATE TE	IE SPECIFIC I	RACE OR STRAIN TESTED
1	Stem Rust (Puccinia graminis f. s		1	Leaf Rust (Puccinia recondita f. sp. tritici) Races: TNRJ, MCRK
2	Stripe Rust (Puccinia striiformis) Race: PST 100	)	0	Loose Smut (Ustilago tritici)
0	Tan Spot (Pyrenophora tritici-rep	entis)	0	Flag Smut (Urocystis agropyri)
0	Halo Spot (Selenophoma donacis	)	0	Common Bunt (Tilletia tritici or T. laevis)
3	Septoria nodorum (Glume Blotch	)	0	Dwarf Bunt (Tilletia controversa)
0	Septoria avenae (Speckled Leaf I	Disease)	0	Karnal Bunt (Tilletia indica)
0	Septoria tritici (Speckled Leaf Ble	otch)	2	Powdery Mildew (Erysiphe graminis f. sp. tritici)
3	Scab (Fusarium spp.)		0	"Snow Molds"
0	"Black Point" (Kernel Smudge)		0	Common Root Rot (Fusarium, Cochliobolus and Bipolaris spp.)
3	Barley Yellow Dwarf Virus (BYI	)V)	0	Rhizoctonia Root Rot (Rhizoctonia solani)
0	Soilborne Mosaic Virus (SBMV)		0	Black Chaff (Xanthomonas campestris pv. translucens)
0	Wheat Yellow (Spindle Streak) M	osaic Virus	0	Bacterial Leaf Blight (Pseudomonas syringae pv. syringae)
0	Wheat Streak Mosaic Virus (WS	MV)		Other (SPECIFY)
	Other (SPECIFY)	<del></del>		Other (SPECIFY)
	Other (SPECIFY)	744		Other (SPECIFY)
	Other (SPECIFY)			Other (SPECIFY)
15. II	NSECT: (0=Not Tested; 1=	Susceptible;	2=Resistant;	3=Intermediate; 4=Tolerant)
•		PLEASE SPE	CIFY RIOTVP	E (where needed)
1	Hessian Fly (Mayetiola destructor,			Other (SPECIFY)
	Biotypes: B,C,D,L			
0	Stem Sawfly (Cephus spp.)			Other (SPECIFY)
0	Cereal Leaf Beetle (Oulema melai	нора)		Other (SPECIFY)
<u>o</u>	Russian Aphid (Diuraphis noxia)			Other (SPECIFY)

	t				2006(	0 2 8 3	Exhibit C (Wheat)
15.	INSECT: Continued (0=Not Tested;	1=Susceptible;	2=Resis	tant;	3=Intermediate;	4=Tolerant)	
-	P	LEASE SPECIFY	BIOTYF	E (whe	ere needed)		
0	Greenbug (Schizaphis graminum)			Other	r (SPECIFY)	- 4-40	- All All All All All All All All All Al
0	Aphids			Othe	r (SPECIFY)		
16.	ADDITIONAL INFORMATION ON AN	NY ITEM ABOVE	, OR GE	NERAL	COMMENTS	,	



#### REFERENCE

Briggle, L.W. and L.P. Reitz. 1963. <u>Classification of Triticum Species and of Wheat Varieties Grown in the United States</u>. Technical Bulletin 1278. United States Department of Agriculture.

#### **'176' WHEAT**

# 18D. Exhibit D. Additional Description of the Variety

Wheat variety 176 is a broadly adapted, high yielding, moderately-early heading, medium stature, apically awnleted, soft red winter wheat. Head emergence is similar to that of 'Sisson' and two days earlier than 'McCormick' (Tables 2-11). Average plant height of variety 176 (35 inches) is two inches taller than 'Tribute' and one inch shorter than 'SS520'. Straw strength (0 = no lodging, 9 = completely lodged) of variety 176 is moderately good (range of 0.9 to 5.4 and mean of 2.2) and similar to that of Sisson. In Virginia, average grain yields and test weights of variety 176 in conventional tillage trials (77 bu/ac; 56.7 lb/bu) and no-till trials (94 bu/ac; 56.4 lb/bu) have been similar to those of Pioneer '26R24' (Tables 1-11). It is notable that grain yields of variety 176 in no-till trials have been similar to those of the highest yielding variety Tribute. On the basis of data collected in Celina, OH in 2005, winter hardiness of variety 176 is moderate being hardier than USG3209 but less hardy than Tribute (Table 12). Variety 176 has relatively prostrate early spring growth habit (Tables 4 and 5) and moderate tolerance to spring freeze (Table 10).

Variety 176 has good soft wheat milling quality (Tables 15-16) and produced higher flour yields than McCormick in tests conducted in 2001 (72.9% vs. 71.4% flour yield) and 2002 (78.2% vs. 77.5% flour yield). Pastry baking quality of variety 176 also is good on the basis that flour derived from this line has acceptable water absorption and produces cookies of relatively large diameter (17.8 to 18.5 cm). Flour protein of variety 176 is higher than average in concentration (7.73 to 8.68%) and also in gluten strength with lactic acid retention values of 96 to 115%. Flour from this variety therefore is likely to have multiple end uses in production of both pastries and crackers.

Variety 176 is resistant to powdery mildew (*Blumeria graminis*) and to stripe rust (*Puccinia striiformis*) (Tables 1-12). While seedlings of variety 176 are susceptible to *Puccinia triticina* races TNRJ and MCRK, adult plants of this variety have expressed moderate resistance to leaf rust in field trials. It is moderately resistant to *barley yellow dwarf virus* and glume blotch (*Stagonospora nodorum*), and is moderately resistant to moderately susceptible to fusarium head blight (*Fusarium graminearum*). Variety 176 is susceptible to race TTTT of stem rust (*Puccinia graminis*), while its reaction to leaf blotch (*Septoria tritici*), wheat spindle streak mosaic virus, and soil-borne mosaic virus is not known. On the basis of independent seedling tests conduct over three years (2001-2003) by USDA-ARS at West Lafayette, IN, variety 176 is resistant to Hessian Fly [*Mayetiola destructor* (Say)] biotype E and susceptible to biotypes B, C, D, and L and, therefore, is postulated to possess genes H7 and H8.

Blacksburg, VA and Plymouth, NC). Numbers below each column heading indicate the number of location upon which data are based. Table 1. Summary of performance of VA99W-176 in the 1999-2000 Preliminary Wheat Yield Test over 4 locations (Warsaw, Painter,

	V	Percent		Headin				Powdery Mildew			Plant Height	Juvenile Plant
	Yield (hn/2)	of Test Mean	Test Weight	g Date (March	Plant Height	Lodging	Powdery Mildew	on \$/11/00	Leaf Rust BYDV		on 3/24/00	Growth Habit
	4	4	4	2	7	3	2	1	2	7		1
VA99W-176	82.9	103.7	57.7	29	,	5.0	0	0	5	2	13	
ROANE	83.6	104.6	59.1	34	34	6.0	3	0	4	2	10	-
CK9663	76.8	1'96	58.1	- 30	39	1.6	9	2	0	1	13	-
PION2580	82.7	103.4	56.5	30	37	9.0	2	2	\$	2	13	-
FFR555W	66.1	75.2	55.5	35	35	6.0	8	7	7	က	12	1
PION2691	78.7	98.4	55.9	23	33	1.2	2	3	4	-	14	2
PION26R24	85.3	106.7	57.7	30	37	12	3	4	'n	7	12	7
UGA9482E7	82.0	102.6	57.7	28	37	2.2	7		-	1	14	2
USG3209	87.8	109.8	57.6	28	3.5	1.9	7	æ	\$	2	7.	-
VA99W-73	79.4	99.3	56.7	30	37	0.3	4	<b>15</b>	ж.	2	13	-
GRAND MEAN	79.9		56.9	30	36	1.1	7	7	m	7	13	-
5	10.0		4.0	4,	4 -	102.3	11	50	37	91	∞ -	33
	7.0		0.0	4	-	60	1	-		7	۲	-

Belgian lodging scale = area x intensity x 0.2. Area is rated on a scale from 1 (plot unaffected) to 10 (entire plot affected). Intensity is rated on a scale from 1 (plants standing upright) to 5 (plants lying totally flat on the ground).

<sup>&</sup>lt;sup>2</sup> All 0-9 ratings indicate relative disease severity: 0 = no disease present; 9 = total plant infection.

<sup>&</sup>lt;sup>3</sup> This height measurement serves as an estimate of spring growth habit.

<sup>&</sup>lt;sup>4</sup> Juvenile Plant Growth Habit: 0 = prostrate; 5 = very erect.

200600283 Table 2. Three-year summary of performance of VA99W-176 in the Virginia Tech Wheat Test, 2001, 2002, and 2003 harvests\*

Line	Yield (Bu/acre) (18)	Test Weight (Lb/bu) (18)	Date Headed (Mar 31+) (11)	Height (In) (9)	Lodging@ (0.2-10) (11)	Powdery Mildew (0-9) (11)	Leaf Rust (0-9) (5)
VA99W-176	774	56.7-	30-	35+	3.2+	1-	34
TRIBUTE	<b>82</b> +	59.6+	<b>31</b> -	33-	1.9	0-	0-
SS 520(R)	82+	56.9-	30-	36+	2.4	2	3+
McCORMICK	80+	59.1+	32	32-	1.3-	0-	0-
SISSON	79+	57.1	30-	33-	2.9	2	4+
VA97W-375WS	80+	56.7-	31-	32-	2.1	0-	0-
SS 550(B)	794	56.7-	32	33-	2.7	1-	3+
SS 560(R)	78+	56.7-	33+	34	0.8-	2	3+
PIONEER 26R24(D)	77+	56.8-	31-	36+	2.2	2	3+
USG 3209(RT)	76	56.2-	31-	32-	2.6	1-	4+
Test Average (n=24) C.V. L.S.D. (0.05)	75 9 2	57.3 1.7 0.3	32 3 1	34 4 1	2.3 61.7 0.7	2 50 1	2 39 1

<sup>\*</sup> Varieties are ordered by descending yield averages, then by descending test weight averages. A plus or minus sign indicates a performance significantly above or below the test average. The number in parentheses below column headings indicates the number of location-years on which data are based.

<sup>♥</sup> Belgian Lodging Scale = Area x Intensity x 0.2. Area = 1-10, where 1 is wheat unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is wheat standing upright and 5 is wheat totally flat.

<sup>▲</sup> The 0-9 ratings indicate relative disease intensity where 0=none and 9=total plant infection.

Table 3. Two-year summary of performance of VA99W-176 in the Virginia Tech Wheat Test, 2002 and 2003 harvests\*

Line	Yield (Bu/ac (11)	re)	Test Weight (Lb/bu) (11)	Date Headed (Mar 31+) (7)	Height (In) (6)	Lodging© (0.2-10) (6)	Powdery Mildew (0-9) (6)	Lear Rus (0-9 (4)	t
VA99W-176	76	+	56,1 -	29 -	36 +	1.6	0 -	3	+
SS 520(R)	81	+	56.9	29 -	37 +	1.1	1	3	+
TRIBUTE	80	+	59.1 +	31	34 =	1.1	0 +	0	<u>-</u>
VA97W-375WS	79	+	56.6	31	33 -	0.9	0 -	0	-
McCORMICK	78	+	58.6 +	31	33 -	0.4 -	0 -	0	7
SS 550(R)	78	+	56.3 -	31	35	1.9 +	1	4	+
SISSON	.77	+	56.9	30 -	33 -	1.8 +	- 1	5	+
SS 560(R)	76	+	56.4	32 +	34 -	0.3 -	2 +	4	+
PIONEER 26R24(B)	73		56.3 -	30 -	36 +	1.3	1	3	4
USG 3209(RT)	71		55.4 -	30 -	33 -	2.0 +	1	5	+
Test Average (n=36) C.V. L.S.D. (0.05)	73 8 3		56.7 1.7 0.4	31 7 1	35 3 1	1.2 82.1 0.6	1 55 1	2 45 1	

<sup>\*</sup> Varieties are ordered by descending yield averages, then by descending test weight averages.

A plus or minus sign indicates a performance significantly above or below the test average. The number in parentheses below column headings indicates the number of location-years on which data are based.

<sup>▶</sup> Belgian Lodging Scale = Area x Intensity x 0.2. Area = 1-10, where 1 is wheat unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is wheat standing upright and 5 is wheat totally flat.

The 0-9 ratings indicate relative disease intensity where 0=none and 9=total plant infection.

Table 4. Summary of performance of VA99W-176 in the Virginia Tech Wheat Test, 2001 harvest.\*

Line	Yiek (Bu/ac		Test Veight Lb/bu) (7)	Date Headed (Mar 31+) (4)	Height (In)	Lodging© (0.2-10) (5)	Powdery Mildew (0-9) (4)	Leaf Rust (0-9)	Early Plant Height (In) (1)
VA99W-176	79		1.7	31 -	32	5.4 +	1 -	2 +	45.5
TRIBUTE(RT)		Security of Carlotte Handle	0.3 +	33	30	2.8	0 -	0 -	12.2
PIONEER 26R24(B)	84	+ 5	7.8	33	34 +	3.4	3	2 +	15.5
USG 3209(RT)	84	+ 57	7.6	33	28 -	3.3	2 -	1	16.0
McCORMICK(RT)	83	+ 60	),0 +	34 +	29 -	2.6	0 -	0 -	13.7
SS550	83	+ 57	7.5	33	29 -	3.7	2 -	1	15.5
SISSON (RT)	83	+ 57	7,5	31 -	30	4.3 +	2 -	1	16.2
SS520	83	+ 56	6.9	32 -	33 +	4.0	3	3 +	15.7
SS560	82	+ 57	1.3	35 +	31	1.4	3	2 +	13.7
VA97W-375WS	82	+ 56	3.7	31 -	30	3.8	0 -	0 -	16.3
Test Average (n=71) C.V. L.S.D. (0.05)	77 8 4	3.	7.3 .5 .2	33 3 1	31 5 2	3.1 5.7 1.1	3 43 1	1 47 1	15.3 5.6

<sup>\*</sup> Varieties are ordered by descending statewide yield averages. A plus or minus sign indicates a performance significantly above or below the test average. The number in parentheses below column headings indicates the number of locations on which data are based.

<sup>➡</sup> Belgian Lodging Scale = Area x Intensity x 0.2. Area = 1-10, where 1 is wheat unaffected and 10 is entire
plot affected and Intensity = 1-5, where 1 is wheat standing upright and 5 is wheat totally flat.

<sup>♠</sup> The 0-9 ratings indicate relative disease intensity where 0=none and 9=total plant infection.

Early Height (inches)	6.8	5.0 -	6.0 7.3	5.5 - 87 +	8.0 8.3	6.5	7.2 11.4 1.3
Fusarium Head Blight I Index F 0-100 (ir	12.3	4.7	10.0	4.7 7.0	12.0 <b>9.</b> 0	22.0	10.9 55.1 8.15
Fu Stripe Eust		0			0 +	0	0.2
Barley Yellow Dwarf S Virus F (0-9)	(z) 2		2, 2, 1	3	7 7	2	2.4 38
Leaf Rust (0-9)	(=) (2)	0 6	, 4 ¢	) o 4	5	0	1.8 43
Powdery Mildew (0-9)		0 6	1 - <del>*</del>		1 - 2	0	4.8 4 t
Lodging (0.2-10)	1.3	0.7		0.9	2.0 +	0.3	0.9 89.5 0.7
Height L (In) (in)	35 +	32 -	32 - 34	32 - 36 +	31 - 35 +	31 -	33.7 3 1
Date Headed H (Mar31+)	24 .	26 27 +	25 - 26	26 24 -	24 - 25 -	26	26.3 4 1
		+		+ ,			
Test Weight (Lb/bu) (5)		60.7			. 57.9 58.8	58.2	58.6 1.1 0.4
Yield (Bu/a) (5)	+ 48	91 +	+ + 06 06	89 + + 78	87 + 86 +	+ 68	18 7 × 4
Line	VA99W-176	TRIBUTE SS 560(R)	SISSON SS 550(R)	McCORMICK SS 520(R)	USG 3209(RT) PIONEER 26R24(B)	VA97W-375WS	Average (n=65) C.V. LSD (0.05)

weight data from Blackstone. A plus or minus sign indicates a performance significantly above or below the \* Varieties are ordered by descending statewide yield averages. These averages do not include yield or test test average.

The number in parentheses below column headings indicates the number of locations on which data are based Belgian Lodging Scale = Area X Intensity X 0.2. Area = 1-10, where 1 is wheat unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is wheat standing upright and 5 is wheat totally flat.

The 0-9 ratings indicate degree to which plant is affected, where 0=none and 9=total plant affected

\*\*Wheat line having white seed color.

Early height (March 8) is an indication of the daylength sensitivity of a variety. Taller varieties began jointing in early March and thus were taller.

Table 6. Performance summary of VA99W-176 in the Virginia Tech Wheat Test, 2003 harvest.\*

Line	Yield (Bu/a)		Test Weight (Lb/bu)		Date Headed (Mar31+)	Height (In)	Lodging (0.2-10)	Powdery Mildew	Leaf Rust (0-9)	Glume Blotch	Fusarium Head Blight Index (0-100)
	(2)		(2)		(3)	(3)	(3)	(4)	(2)	(2)	(1)
VA99W-176	70	+	55.2	+	36	38 +	1.9	- 0	2	2 -	12.0
SS 520(R)	11	+	56.2	+	36	38	1.2	•	ო	·	14.0
TRIBUTE	7	+	57.6	+	37	36	1.6	- 0	-	1	10.5
SS 550(B)	69	+	54.6	C	38	36	2.4 +	0	+ 9	<b>,</b>	13.5
WECORMICK	68	+	57.2	+	37	34 -	0.2	- 0	0	2 -	4.5
SISSON	89	+	55.5	+	36 -	35 -	2.1		+	. 2	15.5
SS 560(R)	98	+	54.1		39	35	0.3	5 +	<b>.</b> Ф	. 2	10.5
PIONEER 26R24(D)	64		54.2		37	38 +	1.6	1	+ •	. 2	13.0
USG 3209(RT)	90	i	53.1	ì	38	. 35	2.0	_	† Φ	8	0.0
VA97W-375WS	72	+	55.4	+	37	34 -	1.5	- 0	0	2 -	31.5
Average LSD (0.05) C.V.	8 3 <u>3</u> 3		54.4 0.8 2.2		88 2 9	36 2 + 8	7. 6. 9.	<del></del>	0 T	ო ←	12.2 13.9 68.3

A plus or minus sign indicates a performance significantly above or below the test average. The number in parentheses below column headings indicates the number of locations on which data are based. \* Varieties are ordered by descending statewide yield averages.

Belgian Lodging Scale = Area X Intensity X 0.2. Area = 1-10, where 1 is wheat unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is wheat standing upright and 5 is wheat totally flat. The 0-9 ratings indicate degree to which plant is affected, where 0=none and 9=total plant affected.

Z00600283

Table 7. Three-year summary of performance of VA99W-176 in the Virginia Tech No-Till

Wheat Test at Warsaw, 2001, 2002, and 2003 harvests.\*

Line	Yield (Bu/acr	e)	Test Weight (Lb/bu)	Date Headed (Mar31+)	Height (In)	Powdery Mildew (0-9)
VA99W-176	94	•	56.4	30 -	30	+ 0 -
TRIBUTE	95	+	60.0 +	31 -	29	O -
McCORMICK	92	+	59.2 +	32	28	- <b>0</b> -
SS 550(B)	92	+	56.6	31 -	28	
SISSON	92	+	56.4	29 -	27	- 1
PIONEER 26R24(D)	90	+	56.7	31 -	30 ·	+ 1
SS 520(R)	90	+	56.2	29 -	31	+ 1
SS 560(R)	87	www.com.com.com.com.com.com.com.com.com.com	56.0	32	28	- 1
USG 3209(RT)	86		56.2	32	27	-1
VA97W-375WS	84		56.4	30 -	26	- 0 -
Location Average (n=24)	85		57.0	32	29	1
C.V.	7		2.3	3	4	64
LSD (0.05)	5		1.1	1	1	1

<sup>\*</sup> Varieties are ordered by descending yield averages, then descending test weights. A plus or minus sign indicates a performance significantly above or below the test average. There is only one rep of data for powdery mildew and freeze damage. Belgian Lodging Scale = Area X Intensity X 0.2. Area = 1-10, where 1 is wheat unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is wheat standing upright and 5 is wheat totally flat. The 0-9 ratings indicate degree to which plant is affected, where 0=none and 9=total plant affected.

Table 8. Two-year summary of performance of VA99W-176 in the Virginia Tech No-Till Wheat Test at Warsaw,

Line	Yield (Bu/acre)	(T	Test Weight (Lb/bu)	Date Headed (Mar31+)	Height (Inches)	Lodging (0.2-10.0)	Powdery Mildew (0-9)	Leaf Rust (0-9)
VA99W-176	06	+	54.5	28	31 +	1.2	. 0	+ +
TRIBUTE	95	+	59.1 +	29	30	0.3	0	_
McCORMICK	94	+	58.3 +	59	29 -	1.8	- 0	_
PIONEER 26R24(D)	06	+	55.4	29	32 +	1.4	•	+
SS 550(B)	06	+	55.1	29	29 -	2.1		+
NOSSIS	87		54.7	27 -	29 -	6.0	an internal control of the control o	+ + +
SS 560(R)	88		55.1	30	30	0.3	+	4 +
SS 520(R)	85		54.9	27 -	33 +	1.3	-	က
VA97W-376WS	8		55.0	28	26 -	0.4	- 0	-
USG 3209(RT)	80		54.8	29	- 59	0.7	-	3
Location Average (n=36)	82		55.5	59	30	1.0	τ-	ო
Ö.	7		7.5	G	4	118.4	99	46
LSD (0.05)	ဖ		6.0	. 2	-	1.2	_	<del>-</del>

\* Varieties are ordered by descending yield averages, then descending test weights. A plus or minus sign indicates a performance significantly above Belgian Lodging Scale \* Area X Intensity X 0.2. Area = 1-10, where 1 is wheat unaffected and 10 is entire The 0-9 ratings indicate degree to which plant is affected, where 0=none and 9=total plant affected. or below the test average. There is only one rep of data for powdery mitdew and freeze damage. plot affected and Intensity = 1-5, where 1 is wheat standing upright and 5 is wheat totally flat.

Z00600283
Table 9. Summary of performance of VA99W-176 in the Virginia Tech No-till
Wheat Test at Warsaw, 2001 harvest.\*

Line	Yield (Bu/acre)	Test Weight (Lb/bu)	Date Headed (Mar 31+)	Height (In)	Powdery Mildew (0-9)
VA99W-176	100 +	59.8	53 -	29 +	0 -
SISSON (RT)	100 +	59.8	33 -	25 -	1
TRIBUTE	97 +	61:1	35 -	27	0 -
	97 +	58.4	33	29 +	0 -
USG 3209(RT)	97 +	58.2	36	25 -	<b>0</b>
SS550	94	59.3	35 -	24 -	0 -
VA97W-375WS	90	59.1	37 +	23 -	0 -
PIONEER 26R24(B)	90	58.7	37 +	27	2 +
SS560	89	57.8	36	27	1
McCORMICK	88	60.6	37 +	25 -	0 -
Test Average (n=71)	88	58.3	36	27	1
L.S.D. (0.05)	9	5.9	1 .	1	1
C.V.	7	7.3	3	4	68

<sup>\*</sup> Varieties are ordered by descending yield averages. A plus or minus sign indicates a performance significantly above or below the test average.

<sup>•</sup> The 0-9 ratings indicate relative disease intensity where 0=none and 9=total plant infection.

Table 10. Summary of performance of VA99W-176 in the Virginia Tech No-Till Wheat Test, 2002 Warsaw\*

		ŀ						
	Yield	Test Weight	Lodging	Date Headed	Height	Powdery Mildew	Leaf Rust	Freeze Damage
Line	(Bu/acre)	(Lb/bu)	(0.2-10)	(Mar31+)	(II)	one rep (0-9)	(6-0)	one rep (1-5)
VA99W-176	92 +	52.5	<b>6.</b> L	- 6L	+ FE	1	+ 1	2
TRIBUTE	101 +	57.3 +	4.0	20 -	29 -	0	. 2	
McCORMICK	+ 86	56.1 +	9.4 +	+ 2	30			-
SS 560(R)	တ်	54.4	0.3	21	30	The state of the s	7	2
SS 550(R)	+ 98	53.2	1.5	. Q	30	-	7 +	ĸ
SS 520(R)	91 +	52.8	0.3	20 -	31 +	2	9	2
NOSSIS	+ 06	52.3	9.0	. 18	28	3	, , , , , , , , , , , , , , , , , , ,	·
VA97W-375WS	+ 68	53.3	0.5	19	27 -	0	2 -	2
PIONEER 26R24(B)	+ 68	53.2	6.1	20 -	30	c	+ &	2
USG 3209(RT)	80	52.7	1.2	20 -	27 -	4	5	4
Location Average (n=65)	82	53.6	7.	21	8	ო	Ŋ	24
LSD (0.10)	_	1.7	1,4	<del>-</del>	<b>-</b>	į	7	
C.V.	ထ	<del>2</del> .	112.0	Ŋ	4	İ	35	ļ

\* Varieties are ordered by descending yield averages. A plus or minus sign indicates a performance significantly above Belgian Lodging Scale = Area X Intensity X 0.2. Area = 1-10, where 1 is wheat unaffected and 10 is entire The 0-9 ratings indicate degree to which plant is affected, where 0≂none and 9≖total plant affected. or below the test average. There is only one rep of data for powdery mildew and freeze damage. plot affected and intensity = 1-5, where 1 is wheat standing upright and 5 is wheat totally flat. The freeze damage ratings 1-5 are 1\*no damage and 5=all early tillers killed.

Table 11. Summary of performance of VA99W-176 in the Virginia Tech No-Till Wheat Test at Warsaw, 2003 harvest.\*

Line	Yield (Bu/a)	Test Weight (Lb/bu)	Lodging (0.2-10)	Date Headed (Mar31+)	Ht. (In)	Powdery Mildew (0	Leaf Rust 9-9)
VA99W-176	89 +	57.2	0,9	37	32	0	1
PIONEER 26R24(D)	90 +	58.3	1.0	37	35 +	1	1
McCORMICK	88 +	61.3 +	0.2	37	29 -	0.0	- 0 -
TRIBUTE	86 +	61.4 +	0.2	37	30		- 0 -
SISSON	83	57.9	1.2	36	30	1	4 +
SS 550(B)	83	57.5	2.7 +	38	28 -	1	1
USG 3209(RT)	79	57.6	0.2	39	30	<b>0</b> -	2 +
SS 520(R)	78	57.7	2.3	35 -	35 +	1	1
SS 560(R)	73	56.0 -	0.2	39	29 -	1	1
VA97W-375WS	71	57.2	0.2	37	26 -	0 -	0 -
Average	76	57.4	0.9	38	31	1	1
LSD (0.05) C.V.	8 6	1.0 1.0	1.5	3 7	2 4	1	1

<sup>\*</sup> Varieties are ordered by descending one-year yield averages. The years 2001 and 2002 had 4 replications; the year 2003 had 3 replications. Data other than yield is given for 2003 harvest only. A plus or minus sign indicates a performance significantly above or below the test average. Belgian Lodging Scale = Area X Intensity X 0.2. Area = 1-10, where 1 is wheat unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is wheat standing upright and 5 is wheat totally flat. The 0-9 ratings indicate degree to which plant is affected, where 0=none and 9=total plant affected.

Table 12. Summary of Performance of Wheat Variety 176 (VA99W-176) in Replicated Yield Tests Conducted in VA, AR and OH in 2005.

		MEAN	Entry	MEAN	VA-OVT	WPB-OH	MEAN	MEAN	VA-OVT	VA-OVT	MEAN	MEAN
		Yield	Rank	Tswt	Heading	W. Kill	HT	Lodge	PM	BYDV	LR	YR
ENT#	LINE	(Bu/a)	By Mean Yield	(Lb/bu)	Julian	0-9	Inch	0-9	0-9	0-9	0-9	0-9
	No. Locs=	10		10	3	1	5	4.0	4	4	6	3
36	VA99W-176	87.8	7	60.4	126	6	39	1.6	0	3	3.0	1.8
1	MASSEY	64.4	40	57.8	129	7	39	1.7	1	4	7.0	4,7
2	SISSON	72.7	33	54.9	128	6	34	3.8	0	4	5.3	6,4
3	McCORMICK	77.4	28	60.2	130	5	35	1.6	0	2	5.7	1.3
4	USG 3342	64.7	39	50.8	128	6	32	1.9	0	4	1.0	4.9
5	Dominion	81.7	19	60.2	130	8	33	1.0	0	3	2.3	1.6
35	SS-MPV 57	90.7	5	59.9	131	6	39	0.6	1	3	2.7	3.9
43	PIONEER 26R15	86.8	10	59.9	129	5	37	0.9	0	2	1.3	2.2
45	TRIBUTE	75.3	29	56.7	129	4	35	1.3	0	2	1.3	4.4
49	RENWOOD 3260	72.6	34	53.4	127	6	36	1.8	0	1	1.3	4.9
64	USG 3209	82.6	14	59.2	128	8	33	1.5	0	3	4.3	2.3
	Mean	79.5		58,2	129	6	35	1.2	0	3	1.9	3.3
	C.V.				3	10			158	25		<u></u>
	L.S.D. 5%				1	0.82			0	1		

				Softness	Flour	Water	Cookie	Gluten
	MIII Score	Bake Score	Flour Yield	Equivalent %	Protein %	Absorb %	Diameter	Strength
Pioneer 26R24 (Std)	100.0 A	100.0 A	72.3	7.99	7.78	58.9	17.79	114.3
VA99W-176	99.1 B	98.1 B	72.9	52.1 *	7.73	59.9	18.52	115.2
Pearl	97.8 B	102,9 A	72.2	54.2	7.41	58.8	18.59	114.3
Sisson	96.1 B	80.7 E	72.3	50.9 *	7.56	*9.09	17.34*	91.8
McCormick	95.4 B	92.0 C	71.4*	- <b>75</b>	7.55	60.4	17.7	117.2
Tribute	91.4 C	79.0 F	71.1*	49.1**	7.2	64.2**	17.77	119.2
USG 3209	86.5 D	85.3 D	70.2**	48.2***	7.38	63.3	18.00	1111
AGS 2000	104.1 A	105.8 A	7.4.7	55	7.64	56.9	18.85	105
SS 520	1024 A	108.0 A	73.5	55.1	7.83	56.7	18.32	118.3
SS 550	94.1 C	97.6 B	71.4*	53.2 *	6.64	60.5	18.28	102.9
SS 560	94,5 C	105.4 A	71.3*	55.1	7.65	58.1	18.41	88.3
VA97W-375WS	93.5 C	93.9 C	71.8	50.5**	8.14	59.4	17.85	93.1
*One st		andard deviation below the check variety	v the check v	arietv				
JWL**	standard de	**Two standard deviations below the check variety	w the check	variety				

Table 16. Milling (Allis-Chalmers) and baking quality of	is-Chalmers	) and baking	quality of	VA99W-176 in the 2001-2002 Virginia State Wheat Nursery.	e 2001-20	02 Virginia	State Wheat	Nursery.			
			Break	Straight Grade	Fri-	E. S. I.		Flour	Water	Cookie	Gluten
	Mill Score	Bake Score	Flour	Flour Yield	ability	Soft Equiv.	Millability	Protein	Absorb	Diameter	Strength
			%	%		%		%	%	cm	(lactic acid)
Sisson (standard)	100.0 A	100.0 A		7.77	29.5	6.6	117.0	7.9	58.1	17.8	77.9
VA99W-176	105.0 A		26.1 *	78.2	29.4	8.4	119.5	89. *89.	57.8	17.83	96
McCormick	101 A	100.0 A 30.3	30.3	77.5	29.1	8.8	111.7	8.29	59	17.83	96.2
Tribute	98.8 B	70.9 F	26.7 *	7.77	28.6 *	9.4	109.6	8.1	60.1 *	17.3 *	101
USG 3209	85.3 D	98.1 B	30.3	76.6**	27.1**	10.9*	93.8 **	7.83	£8.09	17.92	87.5
AGS 2000	110.0 A	105.1 A	29.8	79.8	31.2	6.5	134.7	8.15	57.4	18.06	98
Pioneer 26R24	92.2 C	100.7 A 32.8	32.8	76.7 *	28.4 *	10.1	104.7	7.78	57.5	17.7	688
SS 520	106.7 A	105.9 A	29.2	78.1	30.1	8.6	118.5	7.73	53.3	18.19	85.9
SS 550	89.7 D	101.0 A	313	* 7.97	28.1*	10.6*	103.8 +	7.5	60.2 *	18.04	77.5
SS 560	87.3 D	106.7 A	32.3	76.8 *	27.4**	10.8*	103.8 *	7.44	58.1	18.1	75
VA97W-375WS	95.5 B	104.5 A	28.1	.072	27.9*	9.3	110.6	8.42*	54.9	18.45	76.5
											2
*One standard deviation below the check variety	deviation b	elow the chec	k variety								
" I Wo standard deviations below the check variety	deviations b	elow the chec	k variety								

REPRODUCE LOCALLY. Include form number and edition date on all	reproductions.	ORM APPROVED - OMB No. 0581-005		
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE  EXHIBIT E	Application is required in order to det certificate is to be issued (7 U.S.C. 2 confidential until the certificate is issued.)	421). The information is held		
STATEMENT OF THE BASIS OF OWNERSHIP				
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	3. VARIETY NAME		
Virginia Tech Intellectual Properties, Inc.	OR EXPERIMENTAL NUMBER			
virgina i con interectuar rioperites, tito.	VA99W-176	176		
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)		
		O. FAX (module area code)		
Virginia Tech Intellectual Properties, Inc.	540-951-9374	540-951-5292		
2200 Kraft Drive, Suite 1050	7. PVPO NUMBER			
Blacksburg, VA 24060	200600283			
8. Does the applicant own all rights to the variety? Mark an "X" in the 9. Is the applicant (individual or company) a U.S. national or a U.S. b.				
		<u> </u>		
10. Is the applicant the original owner?	X NO If no, please answer <u>one</u>	of the following:		
a. If the original rights to variety were owned by individual(s), is (	are) the original owner(s) a U.S. Nation  NO If no, give name of count			
11. Additional explanation on ownership (If needed, use the reverse for Original owner Virginia Polytechnic Institute and State University assistanched)	• •			
PLEASE NOTE:	- 1,			
Plant variety protection can only be afforded to the owners (not licens	ees) who meet the following criteria:			
If the rights to the variety are owned by the original breeder, that penational of a country which affords similar protection to nationals of	erson must be a U.S. national, national the U.S. for the same genus and speci	of a UPOV member country, or es.		
<ol><li>If the rights to the variety are owned by the company which employ nationals of a UPOV member country, or owned by nationals of a c genus and species.</li></ol>	ed the original breeder(s), the company ountry which affords similar protection i	must be U.S. based, owned by to nationals of the U.S. for the same		
3. If the applicant is an owner who is not the original owner, both the o	original owner and the applicant must m	eet one of the above criteria.		
The original breeder/owner may be the individual or company who direct for definitions.	ected the final breeding. See Section 4	H(a)(2) of the Plant Variety Protection		
According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, a control number. The valid OMB control number for this information collection is 0581-0055, including the time for reviewing the instructions, searching existing data sources, gathering as	The time required to complete this information collect	ction is estimated to average 0.1 hour per response,		
The U.S. Department of Agriculture (USDA) prohibits discrimination in ell its programs and acmarital or family status, political beliefs, parental status, or protected genetic information. (No communication of program information (Braille, large print, audiotape, etc.) should contact US	ot all prohibited bases apply to all programs.) Person	ns with disabilities who require alternative means for .		

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provide and employer.

# **PLANT GERMPLASM ASSIGNMENT**

DISCLOSURE NO	TITLE
<u>04-018</u>	VA99W-176 Wheat
04.019	VA97W-375WS Wheat
04.020	VA99W-73 Wheat
04.021	VAN00W-186 Wheat
04.048	Teejay (Peanut)

VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY (hereinafter referred to as the "UNIVERSITY"), assigns to VIRGINIA TECH INTELLECTUAL PROPERTIES, INC. (hereinafter referred to as "VTIP") all rights, title and interest in and to all of the above-listed GERMPLASMS as held by the UNIVERSITY.

The UNIVERSITY, by its authorized agents, agrees that it will execute all necessary assignments as requested by VTIP, to facilitate the filing of patent applications and/or copyright registrations. It will render any reasonable assistance requested to aid in preparation of such applications and/or registrations.

The UNIVERSITY shall retain the right to make use of the GERMPLASMS for internal research and other non-commercial purposes without cost to the UNIVERSITY.

All royalties, rents, payments, or any cash receipts from the sale, assignment, transfer, licensing or use of the GERMPLASMS shall be the property of VTIP and shall be distributed according to the provisions of the Virginia Agricultural Experiment Station (VAES) Plant Germplasm Release Policy (PGRP).

Prior to the execution of this Assignment, the UNIVERSITY has not granted the right of license to make, use, or sell said GERMPLASMS to anyone except to VTIP, nor has it otherwise encumbered its rights, title and interest in said GERMPLASMS, and it will not execute any instrument in conflict with this Assignment.

IN	WITNESS	WHEREOF,	the UNIVERSITY	has caused th	is Assignment to be
signed thi	s 474	day of _	June	-	, 2004.

VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY

**Chief Operating Officer** 

# STATE OF VIRGINIA

COUNTY OF MONTGOMERY, to-wit:

The f	oregoing instrument	was acknowl	edged before n	ne this _	4 day of
(	June				Ridenour
of Virginia P	olytechnic Institute a				
	Ger	ry M	. Chenau	ut	•
	Notary Public	0-			
	My commission ex	coires:	2/28/0	クグ	